

**Bureau of Indian Affairs  
Fire Occurrence Reporting System – User's Guide**

**APPENDIX H: Criteria for Firefighting Resource Types**

**Tractor-Plows**

Component	Minimum Standards for Type					
	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6
Horsepower	165	140	120	90	70-80	42-60
Examples	D-7 JD-850 TD-20 and larger	D-6 JD-750 TD-15 Case 1450	D-5H, D-4H TD-12 Case 1150	D-4, D-5C JD-650 TD-9	D-4C JD-450 TD-8	D-3 JD-400, JD-350 TD-7

**Dozers**

Component	Minimum Standards for Type		
	Type 1 (Heavy)	Type 2 (Medium)	Type 3 (Light)
Horsepower	200	100	50
Examples	D-8H, D-7H JD-850	D-5H JD-650	D-46, D-3 JD-550

## Engines

Component	Minimum Standards for Type						
	Structure Engines		Wildland Engines				
	Type 1 (Heavy)	Type 2 (Heavy)	Type 3 (Heavy)	Type 4 (Medium)	Type 5 (Medium)	Type 6 (Light)	Type 7 (Light/Slip-on)
Pump Rating Minimum flow (GPM) At rated pressure (PSI)	1000+ 150	250+ 150	150 250	50 100	50 100	30 100	10 100
Tank Capacity (gallons)	400+	400+	500+	750+	400-750	150-400	50-200
Hose, 2½" (feet)	1200	1000	--	--	--	--	--
Hose, 1½" (feet)	400	500	500	300	300	300	--
Hose, 1" (feet)	--	--	500	300	300	300	200
Ladders (feet)	48	48	--	--	--	--	--
Master Stream (GPM)	500	--	--	--	--	--	--
Personnel (minimum)	4	3	3	2	2	2	2

## Watertenders

Component	Minimum Standards for Type		
	Type 1	Type 2	Type 3
Tank Capacity (gallons)	5000+	2500+	1000+
Pump Capacity (GPM)*	300+	200+	200+
Off Load Capacity (GPM)	300+	200+	200+
Max. Refill Time (minutes)	30	20	15
Notes: * Portable pump acceptable.			

## Air Tankers

Component	Minimum Standards for Type			
	Type 1 (Heavy)	Type 2 (Heavy)	Type 3 (Mixed)	Type 4 (SEAT)
Tank Capacity (gallons)	3000	1800	800	100
Examples	C-130 P-3 DC-7	DC-4 SP2H P2V	Grumman S-2 CL-215 CL-415 AT-802F	Thrush S-2R Melex M-18 AT-802

## Helicopters

Component	Minimum (unless otherwise noted) Standards for Type		
	Type 1 (Heavy)	Type 2 (Medium)	Type 3 (Light)
Allowable Payload at 59°F at Sea Level (lbs)	5000	2500	1200
Passenger Seats	15+	9-14	4-8
Retardant or Water Carrying Capability (gallons)	700	300	100
Maximum Gross Takeoff/Landing Weight (lbs)	12,501+	6000-12,500	Up to 6000
Examples	B-214 series S-58/61/62/64/70 CH-54, UH-60 BV-107/234 SA-330J, AS-332 K-Max, H-43F	B-204/205/210/212 MD-900 S-55	B-206 series/407 MD-500 SA-315/316 AS-350 series/355 EC-135
Helitanker	- Fixed Tank - Air Tanker Board Certified - 1100 gal. Minimum Capacity		

## Handcrews

Component	Minimum Standards for Type			
	Type I <sup>1</sup>	Type II with IA Capability	Type II	Type III
Fireline Capability	Initial attack/can be broken up into squads, fireline construction, complex firing operations (backfire)	Initial attack/can be broken up into squads, fireline construction, firing to include burnout	Initial attack, fireline construction, firing to include burnout	Fireline construction, fireline improvement, mop-up and rehab
Crew Size	18-20	18-20	18-20	18-20
Leadership Qualifications	Permanent Supervision 1 Superintendent: TFLD, ICT4 1 Asst Supt: STCR, ICT4 3 Squad Boss: CRWB(T), ICT5	1 CRWB and 3 ICT5	1 CRWB and 3 FFTR1	1 CRWB and 3 FFTR1
Bilingual Requirement	CRWB and FFT1's must be bilingual (able to read and interpret) in the primary language of crew.	CRWB and FFT1's must be bilingual (able to read and interpret) in the primary language of crew.	CRWB and FFT1's must be bilingual (able to read and interpret) in the primary language of crew.	CRWB and FFT1's must be bilingual (able to read and interpret) in the primary language of crew.
Experience	80% - 1 season or more	60% - 1 season or more	40% - 1 season or more	20% - 1 season or more
Full Time Organized Crew	Yes	No	No	No
Communications	5 programmable radios	4 programmable radios	4 programmable radios	4 programmable radios
Sawyers	3 agency qualified	3 agency qualified	0	0
Training	80 hours annual training	Basic firefighter training and/or annual firefighter safety refresher	Basic firefighter training and/or annual firefighter safety refresher	Basic firefighter training and/or annual firefighter safety refresher
Fitness	Arduous	Arduous	Arduous	Arduous
Logistics	Self-sufficient	Not self-sufficient	Not self-sufficient	Not self-sufficient
Maximum Weight	5100 lbs	5100 lbs	5100 lbs	5100 lbs
Dispatch Availability	1 hour	Variable	Variable	Variable
Production Factor	1.0	0.8	0.8	n/a
Transportation	Own transportation	Transportation needed	Transportation needed	Transportation needed

## Handcrews

Component	Minimum Standards for Type			
	Type I <sup>1</sup>	Type II with IA Capability	Type II	Type III
Tools & Equipment	Fully equipped	Not equipped	Not equipped	Not equipped
Personal Gear	Arrives with: crew first aid kit, personal first aid kit, headlamp, 1 qt canteen, web gear, sleeping bag	Arrives with: crew first aid kit, personal first aid kit, headlamp, 1 qt canteen, web gear, sleeping bag	Arrives with: crew first aid kit, personal first aid kit, headlamp, 1 qt canteen, web gear, sleeping bag	Arrives with: crew first aid kit, personal first aid kit, headlamp, 1 qt canteen, web gear, sleeping bag
PPE	Arrives with: hard hat, fire resistant shirt/pants, 8" leather boots, leather gloves, fire shelter, hearing/eye protection	Arrives with: hard hat, fire resistant shirt/pants, 8" leather boots, leather gloves, fire shelter, hearing/eye protection	Arrives with: hard hat, fire resistant shirt/pants, 8" leather boots, leather gloves, fire shelter, hearing/eye protection	Arrives with: hard hat, fire resistant shirt/pants, 8" leather boots, leather gloves, fire shelter, hearing/eye protection
<b>Notes:</b> <sup>1</sup> Interagency Hotshot Crews (IHC) are a Type 1 crew that exceeds the Type 1 Standards as required by the National IHC Operations Guide (2001) in the following categories: <ul style="list-style-type: none"> <li>• Permanent Supervision with seven career appointments (Superintendent, Assistant Superintendent, 3 Squad Bosses)</li> <li>• IHC's work and train as a unit 40 hours per week</li> <li>• IHC's are a national resource</li> </ul>				